34A

BATCH 32

OMB#: 2050-0024 Expires 12-31-88

IAD000819110 L
SQUARE D CO
JENSEN, JAMES ENV COORDINATOR
3700 6TH ST SW
CEDAR RAPIDS IA 52404

U.S. ENVIRONMENTAL PROTECTION AGENCY

1987 Hazardous Waste Generation and Shipment Report

FORM IC

IDENTIFICATION AND CERTIFICATION

WHO MUST COMPLETE THIS FORM? Form IC must be completed by every site that received this package.

INSTRUCTIONS: Please read the detailed instructions beginning on page 8 of the 1987 Hazardous Waste Generation and Shipment Report Instructions booklet before completing this form.

Complete Sections I through IV and Sections VI through IX immediately. Complete Section V, certification, after you have finished the full report package.

SEC. I. Site name and physical location which may differ from the mailing address. Complete items A through G.
Mark [X] for items A, B, C, D, F, and G if same as label; if different, enter corrections. If label is absent, enter information.

A. Site/company name — Same as label [X] — or →

B. EPA ID No. — Same as label [X] — or →

C. Address number and street name of physical location - if not known, enter industrial park, building name or other physical location description — Same as label [X] — or →

D. City, town, village, etc. — Same as label [X] — or →

E. County: Linn

F. State — Same as label [X] — or →

G. Zip Code — Same as label [ ] — or → 52404-3069

SEC. II. Mailing address of site.
Mark [X] for A, B, C, and D if same as label; if different, enter corrections.

RECEIVED
MAY 31 1988
IOWA SECTION

A. Number and street name of mailing address — Same as label [ ] — or → 3700 Sixth Stree SW P.O. Box 3069

B. City, town, village, etc. — Same as label [X] — or →

C. State — Same as label [X] — or →

D. Zip Code — Same as label [ ] — or → 52404-3069

SEC. III. Name, title, and telephone number of the person who should be contacted if questions arise regarding this report.

A. Please print: Last name	First name	M.I.	B. Title	C. Telephone
Jensen	James	C	Environmental Coordinator	319 365-4631 Extension

SEC. IV. Enter the Standard Industrial Classification (SIC) Code that describes the principal products, group of products, produced or distributed, or the services rendered at the site's physical location. Enter more than one SIC Code only if no one industry description includes the combined activities of the site. SIC codes are listed beginning on page 1 of the 1987 Hazardous Waste Generation, Shipment and Management Report Codebook.

A.	B.	C.	D.	E.	F.
3613					

SEC V. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. Please print: Last name	First name	M.I.	Title
Sines	Barbara	J.	Plant Manager

B. Signature: B J Sines

Date of signature: 05 (Mo.) 27 (Day) 88 (Yr.)

SEC. VI. Does this site's EPA ID authorize hazardous waste generation?

- [ ] NO ⟶ SKIP TO SECTION VII.
- [X] YES ⟶ Did this site generate any hazardous waste during 1987?
  - [X] YES ⟶ READ DETAILED INSTRUCTION ON PAGE 9 OF THE 1987 HAZARDOUS WASTE GENERATION AND SHIPMENT REPORT INSTRUCTIONS BOOKLET FOR ACUTE AND ACCUMULATION LIMITS. MARK [X] NEXT TO THE HAZARDOUS WASTE GENERATION QUANTITY CATEGORY THAT APPLIED TO THIS SITE DURING 1987.
    - [X] Category 1: More than 1000 kg (2,200 lb) in one or more months
    - [ ] Category 2: More than 100 kg (220 lb) but no more than 1000 kg (2,200 lb) in any single month
    - [ ] Category 3: No more than 100 kg (220 lb) in any single month
      - [ ] Mark [X] if this site changed from Category 1 to Category 2 or 3 due to waste minimization activity conducted during 1986 or 1987.
  - [ ] NO ⟶ CONTINUE BELOW, MARK [X] NEXT TO ALL THAT APPLY.
    - [ ] Generated, excluded or delisted wastes
    - [ ] Generated hazardous waste prior to 1987 but do not expect to generate in the future - MARK [X] FOR REASON IN ONE BOX BELOW
      - [ ] Waste was from one-time event(s) (e.g. spills, remedial actions, etc.)
      - [ ] Waste minimization activity undertaken during 1986 or 1987
      - [ ] Out of business
    - [ ] Generated hazardous waste prior to 1987 and expect to generate in the future
    - [ ] Never generated before but expect to generate in the future
    - [ ] Never generated and do not expect to generate in the future - MARK [X] FOR REASON IN ONE BOX BELOW
      - [ ] Protective notifier only
      - [ ] Misunderstood the requirements
      - [ ] Notified to secure transportation services
      - [ ] Other EXPLAIN REASON FOR GENERATOR NOTIFICATION IN COMMENTS

SEC. VII. Does this site have RCRA Interim Status or a RCRA permit to treat, store, or dispose hazardous waste?

- [X] NO ⟶ SKIP TO SECTION VIII
- [ ] YES ⟶ Did the site treat, store, or dispose (T/S/D) hazardous waste in RCRA-regulated units during 1987?
  - [ ] YES ⟶ SKIP TO SECTION VIII
  - [ ] NO ⟶ CONTINUE BELOW, MARK [X] NEXT TO ALL THAT APPLY
    - [ ] T/S/D excluded waste during 1987
    - [ ] T/S/D hazardous waste in exempt units during 1987
    - [ ] T/S/D hazardous waste prior to 1987 but did not T/S/D waste during 1987. MARK [X] IN ONE BOX BELOW
      - [ ] T/S/D will resume in the future
      - [ ] Have notified of planned closure
      - [ ] Site is in closure or post closure
    - [ ] Never T/S/D hazardous waste prior to 1987 but: MARK [X] IN ONE BOX BELOW
      - [ ] Expect to T/S/D hazardous waste in the future
      - [ ] Do not expect to T/S/D hazardous waste in the future - EXPLAIN REASON FOR INTERIM STATUS OR PERMIT IN COMMENTS

SEC. VIII. Do you wish to withdraw this site's generator notification or EPA Part A permit application?

Withdraw generator notification	[ ] Yes	[X] No
Withdraw Part A permit application	[ ] Yes	[X] No

SEC. IX. Does this site have an area not requiring a RCRA Part A or Part B permit that is used exclusively for the short term accumulation of hazardous waste?

- [ ] NO
- [X] YES ⟶ DOES THE AREA HAVE:

Containers	[ ] No	[X] Yes	ENTER THE NUMBER OF TANKS AND THEIR TOTAL CAPACITY IN GALLONS.
Tanks	[X] No	[ ] Yes ⟶	[ ][ ][ ] Number [ ][ ][ ][ ][ ][ ][ ][ ] Gallon capacity

Comments:

IAD000819110 L
SQUARE D CO
JENSEN, JAMES ENV COORDINATOR
3700 6TH ST SW
CEDAR RAPIDS IA 52404

U.S. ENVIRONMENTAL PROTECTION AGENCY

1987 Hazardous Waste Generation and Shipment Report

FORM **OI**

OFF-SITE IDENTIFICATION

WHO MUST COMPLETE THIS FORM?

Form OI must be completed by every site that shipped hazardous waste off site and every site that received hazardous waste from off site during 1987.

☐ Mark [X] if you are not required to complete Form OI.

INSTRUCTIONS:

Please read the detailed instructions beginning on page 23 of the 1987 Hazardous Waste Generation and Shipment Report Instructions booklet before completing this form.

Complete A through E for each off-site installation to which you shipped waste or from which you received waste during 1987.

Complete A through D for every transporter you used during the reporting year.

Throughout this form enter "DK" if the information requested is not known or is not available; enter "NA" if the information requested is not applicable. Make and complete additional copies of this form if you need to identify more than four off-site installations or transporters.

Site 1

A. EPA ID No. of off-site installation or transporter Instruction page 23: IAT200101593

B. Name of off-site installation or transporter Page 23: Hydrite Chemical Company

C. Site type code Page 24: F

D. Site relationship code Page 24: D

E. Address of off-site installation Page 24:
Street: 2815 W.C.F. & N. Drive
City: Waterloo State: IA Zip Code: 50703-

Site 2

A. EPA ID No. of off-site installation or transporter Instruction page 23: ARD069748192

B. Name of off-site installation or transporter Page 23: ENSCO, Inc.

C. Site type code Page 24: K

D. Site relationship code Page 24: D

E. Address of off-site installation Page 24:
Street: 47th and Smith Avenue
City: El Dorado State: AZ Zip Code: 71730-

Site 3

A. EPA ID No. of off-site installation or transporter Instruction page 23:

B. Name of off-site installation or transporter Page 23:

C. Site type code Page 24:

D. Site relationship code Page 24:

E. Address of off-site installation Page 24:
Street:
City: State: Zip Code:-

Site 4

A. EPA ID No. of off-site installation or transporter Instruction page 23:

B. Name of off-site installation or transporter Page 23:

C. Site type code Page 24:

D. Site relationship code Page 24:

E. Address of off-site installation Page 24:
Street:
City: State: Zip Code:-

Comments:

IAD000819110 L
SQUARE D CO
JENSEN, JAMES ENV COORDINATOR
3700 6TH ST SW
CEDAR RAPIDS IA 52404

U.S. ENVIRONMENTAL PROTECTION AGENCY

1987 Hazardous Waste Generation and Shipment Report

FORM **OI**

OFF-SITE IDENTIFICATION

WHO MUST COMPLETE THIS FORM?

Form OI must be completed by every site that shipped hazardous waste off site and every site that received hazardous waste from off site during 1987.

☐ Mark [X] if you are not required to complete Form OI.

INSTRUCTIONS:

Please read the detailed instructions beginning on page 23 of the 1987 Hazardous Waste Generation and Shipment Report Instructions booklet before completing this form.

Complete A through E for each off-site installation to which you shipped waste or from which you received waste during 1987.

Complete A through D for every transporter you used during the reporting year.

Throughout this form enter "DK" if the information requested is not known or is not available; enter "NA" if the information requested is not applicable. Make and complete additional copies of this form if you need to identify more than four off-site installations or transporters.

Site 1

A. EPA ID No. of off-site installation or transporter Instruction page 23: IAD098027592

B. Name of off-site installation or transporter Page 23: Safety Kleen Corporation

C. Site type code Page 24: K

D. Site relationship code Page 24: D

E. Address of off-site installation Page 24: Street 3035 West 73rd Street; City Davenport; State IA; Zip Code 52806-

Site 2

A. EPA ID No. of off-site installation or transporter Instruction page 23: ILD0098481993

B. Name of off-site installation or transporter Page 23: Peoria Disposal Company

C. Site type code Page 24: T

D. Site relationship code Page 24: D

E. Address of off-site installation Page 24: Street N/A; City; State; Zip Code

Site 3

A. EPA ID No. of off-site installation or transporter Instruction page 23: ILD0080581 12

B. Name of off-site installation or transporter Page 23: Peoria Disposal Company Landfill

C. Site type code Page 24: F

D. Site relationship code Page 24: D

E. Address of off-site installation Page 24: Street 4349 Southport Road; City Peoria; State IL; Zip Code 61615-

Site 4

A. EPA ID No. of off-site installation or transporter Instruction page 23: WID006435887

B. Name of off-site installation or transporter Page 23: Hydrite Chemical Company

C. Site type code Page 24: T

D. Site relationship code Page 24: D

E. Address of off-site installation Page 24: Street N/A; City; State; Zip Code

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Square D Company
3700 Sixth Street SW
Cedar Rapids, Iowa 52404

EPA ID NO. I A D 0 0 8 1 9 1 1 0

James Jensen, Environmental Coordinator

FORM WM

U.S. ENVIRONMENTAL PROTECTION AGENCY

1987 Hazardous Waste Generation and Shipment Report

WASTE MINIMIZATION

PART I

WHO MUST COMPLETE THIS FORM?

Form WM Part I, describing efforts undertaken to implement waste minimization programs, must be completed by all generators required to file an Annual/Biennial Report. This requirement was established in response to statutory provisions included in the Hazardous and Solid Waste Amendments of 1984 (HSWA).

NOTE: Generators shipping hazardous waste off site are required to certify, on Item 16 of the Uniform Hazardous Waste Manifest, that they have a program in place to reduce, to the degree determined economically practicable, the volume and toxicity of hazardous waste generated. A similar certification must also be made by generators who have obtained a RCRA treatment, storage, or disposal permit. Consistent with these certification requirements, generators must report, on Form WM Part I, the efforts undertaken to implement waste minimization programs.

INSTRUCTIONS:

Please read the detailed instructions on page 25 of the 1987 Hazardous Waste Generation and Shipment Report Instructions booklet before completing this form.

Answer questions 1 through 10. Throughout this form enter "DK" if the information requested is not known or is not available; enter "NA" if the information requested is not applicable.

1. Did this site create or expand a source reduction and recycling program?

	1987		1986		Prior Years	
	Yes	No	Yes	No	Yes	No
Create	☐	X	☐	X	X	☐
Expand	X	☐	X	☐	☐	X

2. Did this site have a written policy or statement that outlined goals, objectives and methods for source reduction and recycling of hazardous waste?

	1987	1986	Prior Years
Yes	X	X	☐
No	☐	☐	X

3. What was the dollar amount of capital expenditures (plant and equipment) and operating costs devoted to source reduction and recycling of hazardous waste? ENTER ZERO (0) IF NONE.

	1987	1986	Prior Years
Capital expenditures	$ 0	$ 0	$ 229,000
Operating costs	$ 150,000	$ 134,000	$ 1,300,000

4. Did this site have an employee training program or provide incentives (bonuses, awards, personal recognition, etc.) to identify and implement source reduction and recycling opportunities and activities?

	1987		1986		Prior Years	
	Yes	No	Yes	No	Yes	No
Training	☐	X	☐	X	☐	X
Incentives	X	☐	X	☐	X	☐

OVER —>

5. Did this site conduct a source reduction and/or recycling opportunity assessment or audit? Note: an opportunity assessment or audit is a procedure that identifies practices that can be implemented to reduce the generation of hazardous waste or the quantity which must subsequently be treated, stored or disposed.

	1987		1986		Prior Years	
	Yes	No	Yes	No	Yes	No
Site-Wide	[x]	[ ]	[x]	[ ]	[ ]	[x]
Process-Specific	[x]	[ ]	[x]	[ ]	[ ]	[x]

6. Did this site identify or implement new SOURCE REDUCTION opportunities to reduce the volume and/or toxicity of hazardous waste generated at this site?

	1987		1986		Prior Years	
	Yes	No	Yes	No	Yes	No
Identify	[x]	[ ]	[x]	[ ]	[ ]	[x]
Implement	[x]	[ ]	[x]	[ ]	[ ]	[x]

7. What factors have delayed or prevented implementation of SOURCE REDUCTION opportunities. MARK [X] NEXT TO ALL THAT APPLY.

- [ ] a. Insufficient capital to install new source reduction equipment or implement new source reduction practices.
- [x] b. Lack of technical information on source reduction techniques, applicable to my specific production processes.
- [ ] c. Source reduction is not economically feasible: cost savings in waste management or production will not recover the capital investment.
- [x] d. Concern that product quality may decline as a result of source reduction.
- [ ] e. Technical limitations of the production processes.
- [ ] f. Permitting burdens.
- [x] g. Other (SPECIFY) Manpower to install and operate new practices.

8. Did this site identify or implement new RECYCLING opportunities to reduce the volume and/or toxicity of hazardous waste generated at this site or subsequently treated, stored, or disposed of on site or off site?

	1987		1986		Prior Years	
	Yes	No	Yes	No	Yes	No
Identify	[x]	[ ]	[x]	[ ]	[x]	[ ]
Implement	[ ]	[x]	[ ]	[x]	[x]	[ ]

EPA ID NO. |I|A|D|0|0|0|8|1|9|1|1|0|

9. What factors have delayed or prevented implementation of on-site or off-site RECYCLING opportunities. MARK [X] NEXT TO ALL THAT APPLY.

- [ ] a. Insufficient capital to install new recycling equipment or implement new recycling practices.
- [x] b. Lack of technical information on recycling techniques applicable to this site's specific production processes.
- [ ] c. Recycling is not economically feasible: cost savings in waste management or production will not recover the capital investment.
- [x] d. Concern that product quality may decline as a result of recycling.
- [ ] e. Requirements to manifest wastes inhibit shipments off site for recycling.
- [ ] f. Financial liability provisions inhibit shipments off site for recycling.
- [ ] g. Technical limitations of product processes inhibit shipments off site for recycling.
- [ ] h. Technical limitations of production processes inhibit on-site recycling.
- [ ] i. Permitting burdens inhibit recycling.
- [x] j. Lack of permitted off-site recycling facilities.
- [x] k. Unable to identify a market for recyclable materials.
- [ ] l. Other (SPECIFY) _____

10. Has this site requested or received technical information or financial assistance on source reduction and/or recycling practices from any of the following sources? MARK [X] NEXT TO ALL THAT APPLY.

	1987		1986		Prior Years	
	Technical	Financial	Technical	Financial	Technical	Financial
a. Local government	[X]	[ ]	[X]	[ ]	[X]	[ ]
b. State government	[x]	[ ]	[x]	[ ]	[X]	[ ]
c. Federal government	[x]	[ ]	[x]	[ ]	[X]	[ ]
d. Trade associations	[x]	[ ]	[x]	[ ]	[X]	[ ]
e. Educational institutions	[X]	[ ]	[X]	[ ]	[X]	[ ]
f. Suppliers	[x]	[ ]	[x]	[ ]	[X]	[ ]
g. Other parts of your firm	[x]	[ ]	[x]	[ ]	[X]	[ ]
h. Other firms/consultants	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
i. No request made	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
j. Other (conferences, literature, etc.)_____	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Square D Company
3700 Sixth Street SW
Cedar Rapids, Iowa 52404

EPA ID NO. I A D 0 0 0 8 1 9 1 1 0

James Jensen, Environmental Coordinator

U.S. ENVIRONMENTAL PROTECTION AGENCY

1987 Hazardous Waste Generation and Shipment Report

FORM WM

WASTE MINIMIZATION

PART II

WHO MUST COMPLETE THIS FORM? Form WM Part II must be completed only by generators that engaged in an activity during 1987 that resulted in waste minimization.

Waste minimization means:
(1) reduction in the volume and/or toxicity of hazardous waste generated as a result of source reduction; and/or,
(2) reduction in the volume and/or toxicity of hazardous waste subsequently treated, stored, or disposed as a result of on-site or off-site recycling.

☐ Mark ☒ and do not complete this form if no waste minimization results were achieved during 1987.

INSTRUCTIONS: Please read the detailed instructions beginning on page 26 of the 1987 Hazardous Waste Generation and Shipment Report Instructions booklet before completing this form.

Make and complete a photocopy of this form for each hazardous waste minimized in 1987.

Complete Sections I through IV. Throughout this form enter "DK" if the information requested is not known or is not available; enter "NA" if the information requested is not applicable.

Sec. I

A. EPA hazardous waste code Instruction Page 27	B. State hazardous waste code Page 27	C. Product or service description Page 27	D. Product or service SIC code Page 27
F 0 0 6	N A	This waste is produced from the treatment of rinse waters from our plating operations. The parts plated are used in the assembling of molded case circuit breakers.	3 6 1 3

E. Waste form code Page 27	F. UOM Page 28	G. Density Page 28	H. Source description: Page 28	I. Source code Page 28
N 2 1	P	. ☐ lbs/gal ☐ sg	Metal Hydroxide sludge produced from the treatment of rinse waters from plating.	1 0

Sec. II

A. 1986 quantity generated Instruction Page 29	B. 1987 quantity generated Page 29	C. Production ratio Page 29	D. Toxicity change code Page 31
5 1 3 8 5	4 7 8 6 7	1 . 0 1	2

E. Waste minimization: recycling Page 31

Code 1.	Code 2.	Quantity recycled
0		0

F. Waste minimization: source reduction Page 32

Code 1.	Code 2.	Code 3.	Quantity prevented
2			4 0 3 2

Sec. III

A. Narrative description of waste minimization project or activity and results achieved Instruction Page 39

We purchased an evaporator recycling unit for our nickel plating line in 1985. Due to having to redo cooling systems and the plating line, the unit did not become operational until 1987. This is a closed loop system that takes our nickel rinse water and makes a concentrate that goes back to the plating bath and clean water that goes back to the rinse.

OVER —>

Sec. IV.	**Instructions:** Answer questions 1 through 4. Mark [X] next to the effects produced by the source reduction and/or recycling activity reported on this form in Sections I through III.

1. What effect did this site's source reduction and/or recycling activity have on the **quantity** of **water effluent** produced by hazardous waste generation processes during 1987?

   - [ ] a. Increase in the quantity of water effluent
   - [X] b. Decrease in the quantity of water effluent
   - [ ] c. No effect on the quantity of water effluent
   - [ ] d. Don't know

2. What effect did this site's source reduction and/or recycling activity have on the **toxicity** of **water effluent** produced by hazardous waste generation processes during 1987?

   - [ ] a. Increase in the concentration of hazardous constituents
   - [X] b. Decrease in the concentration of hazardous constituents
   - [ ] c. No effect on the concentration of hazardous constituents
   - [ ] d. Don't know

3. What effect did this site's source reduction and/or recycling activity have on the **quantity** of **air emissions** produced by hazardous waste generation processes during 1987?

   - [ ] a. Increase in the quantity of air emissions
   - [ ] b. Decrease in the quantity of air emissions
   - [X] c. No effect on the quantity of air emissions
   - [ ] d. Don't know

4. What effect did this site's source reduction and/or recycling activity have on the **toxicity** of the **air emissions** produced by hazardous waste generation processes during 1987?

   - [ ] a. Increase in the concentration of hazardous constituents
   - [ ] b. Decrease in the concentration of hazardous constituents
   - [X] c. No effect on the concentration of hazardous constituents
   - [ ] d. Don't know

Comments: Due to changes in our manufacturing techniques and a change to Just-In-Time concepts, our plating and waste treatment operations were required to function in full capacity for two shifts for most of 1987. In 1986, these operations ran only on one shift. We treated twice as much water in 1987 as we did in 1986 and, therefore did not get the sludge reduction we had hoped for.

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Square D Company
3700 Sixth Street SW
Cedar Rapids, Iowa 52404

EPA ID NO. IAD008191110

FORM WM

U.S. ENVIRONMENTAL PROTECTION AGENCY

1987 Hazardous Waste Generation and Shipment Report

WASTE MINIMIZATION

PART II

WHO MUST COMPLETE THIS FORM? Form WM Part II must be completed only by generators that engaged in an activity during 1987 that resulted in waste minimization.

Waste minimization means:
(1) reduction in the volume and/or toxicity of hazardous waste generated as a result of source reduction; and/or,
(2) reduction in the volume and/or toxicity of hazardous waste subsequently treated, stored, or disposed as a result of on-site or off-site recycling.

☐ Mark ☒ and do not complete this form if no waste minimization results were achieved during 1987.

INSTRUCTIONS: Please read the detailed instructions beginning on page 26 of the 1987 Hazardous Waste Generation and Shipment Report Instructions booklet before completing this form.

Make and complete a photocopy of this form for each hazardous waste minimized in 1987.

Complete Sections I through IV. Throughout this form enter "DK" if the information requested is not known or is not available; enter "NA" if the information requested is not applicable.

Sec. I

A. EPA hazardous waste code Instruction Page 27	B. State hazardous waste code Page 27	C. Product or service description Page 27	D. Product or service SIC code Page 27
F003 D001 NA NA	NA	Cleaning operation for the painting equipment used to paint items that go into the assembled Molded Case Circuit Breakers.	3613

E. Waste form code Page 27	F. UOM Page 28	G. Density Page 28	H. Source description: Page 28	I. Source code Page 28
H52	G	7.38 ☐ lbs/gal ☐ sg	Plant equipment cleaning operation	10

Sec. II

A. 1986 quantity generated Instruction Page 29	B. 1987 quantity generated Page 29	C. Production ratio Page 29	D. Toxicity change code Page 31
1215	2210	1.01	0

E. Waste minimization: recycling Page 31		F. Waste minimization: source reduction Page 32	
Code	Quantity recycled	Code	Quantity prevented
1. 5 2.	2210	1. 0 2. 3.	1007

Sec. III

A. Narrative description of waste minimization project or activity and results achieved Instruction Page 39

We changed the molding compound we used from a phonolic to a polyester. The polyester material has better dielectric and, therefore we did not have to paint the arc chamber with an insulating paint. We have reduced the number of spray booths from two to one.

OVER -->

Sec. IV.	**Instructions:** Answer questions 1 through 4. Mark [X] next to the effects produced by the source reduction and/or recycling activity reported on this form in Sections I through III.

1. What effect did this site's source reduction and/or recycling activity have on the **quantity** of **water effluent** produced by hazardous waste generation processes during 1987?

   - [ ] a. Increase in the quantity of water effluent
   - [ ] b. Decrease in the quantity of water effluent
   - [X] c. No effect on the quantity of water effluent
   - [ ] d. Don't know

2. What effect did this site's source reduction and/or recycling activity have on the **toxicity** of **water effluent** produced by hazardous waste generation processes during 1987?

   - [ ] a. Increase in the concentration of hazardous constituents
   - [ ] b. Decrease in the concentration of hazardous constituents
   - [X] c. No effect on the concentration of hazardous constituents
   - [ ] d. Don't know

3. What effect did this site's source reduction and/or recycling activity have on the **quantity** of **air emissions** produced by hazardous waste generation processes during 1987?

   - [ ] a. Increase in the quantity of air emissions
   - [X] b. Decrease in the quantity of air emissions
   - [ ] c. No effect on the quantity of air emissions
   - [ ] d. Don't know

4. What effect did this site's source reduction and/or recycling activity have on the **toxicity** of the **air emissions** produced by hazardous waste generation processes during 1987?

   - [ ] a. Increase in the concentration of hazardous constituents
   - [X] b. Decrease in the concentration of hazardous constituents
   - [ ] c. No effect on the concentration of hazardous constituents
   - [ ] d. Don't know

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL

IAD000819110 L
SQUARE D CO
JENSEN, JAMES ENV COORDINATOR
3700 6TH ST SW
CEDAR RAPIDS IA 52404

U.S. ENVIRONMENTAL PROTECTION AGENCY

1987 Hazardous Waste Generation and Shipment Report

FORM GS

WASTE GENERATION AND SHIPMENT

WHO MUST COMPLETE THIS FORM? Form GS must be completed by every site that generated hazardous waste on site or shipped hazardous waste off site during 1987.

☐ Mark ☒ if you are not required to complete Form GS.

INSTRUCTIONS: Please read the detailed instructions beginning on page 12 of the 1987 Hazardous Waste Generation and Shipment Report Instructions booklet before completing this form.

Make and complete a photocopy of this form for each hazardous waste generated on site or shipped off site during 1987.

Complete Sections I through IV. Throughout this form enter "DK" if the information requested is not known or is not available; enter "NA" if the information requested is not applicable.

Sec. I

A. Waste description Instruction Page 12: Large capacitors that contained PCB's, We replaced all capacitors in our substaion that contained PCB's.

B. EPA hazardous waste code Page 12				C. State hazardous waste code Page 13		
PCB	NA	NA	NA	NA	NA	NA

D. SIC code Page 13	E. Source code Page 13	F. Waste form code Page 13	G. Waste minimization results Page 13
3613	21	H71	B

Sec. II

A. Organics Instruction Page 14	B. Water Page 15	C. Total Solids Page 15	D. Suspended Solids Page 15	E. BTU Page 16
High A	High	High	High	High
Low	Low	Low	Low	Low
Test Note N	Note D	Note D	Note D	UOM Note D

F. Toxic Metals Page 16 Note A

Metal	High	Low	Test
1.			
2.			
3.			
4.			
5.			
6.			

G. pH Page 18	H. Flashpoint Page 18	I. Cyanides Page 19	J. Halogens Page 20	K. Radioactive Page 20
High	High °F	High	High	Yes ☐
Low	Low °F	Low	Low	No ☐
Note D	Note D	Test Note G	Note D	Note N

Sec. III

A. 1986 quantity hazardous waste generated Instruction Page 20	B. 1987 quantity hazardous waste generated Page 20	C. UOM Page 21	D. Density Page 21
0	650	P	NA • ☐ lbs/gal ☐ sg

E. Quantity hazardous waste on site on January 1, 1987 Page 21	F. Quantity hazardous waste remaining on site on December 31, 1987 Page 21
0	0

Sec. IV

A. EPA ID No. of facility to which waste was shipped Instruction Page 22	B. Number of shipments Page 22	C. Transport mode Page 22	D. Off-site T/S/D/R code Page 22	E. Total quantity shipped Page 22
ARD069748192	1	H	M50 M72	650

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL

IAD000819110 L
SQUARE D CO
JENSEN, JAMES ENV COORDINATOR
3700 5TH ST SW
CEDAR RAPIDS IA 52404

U.S. ENVIRONMENTAL PROTECTION AGENCY

1987 Hazardous Waste Generation and Shipment Report

FORM GS

WASTE GENERATION AND SHIPMENT

WHO MUST COMPLETE THIS FORM? Form GS must be completed by every site that generated hazardous waste on site or shipped hazardous waste off site during 1987.

☐ Mark ☒ if you are not required to complete Form GS.

INSTRUCTIONS: Please read the detailed instructions beginning on page 12 of the 1987 Hazardous Waste Generation and Shipment Report Instructions booklet before completing this form.

Make and complete a photocopy of this form for each hazardous waste generated on site or shipped off site during 1987.

Complete Sections I through IV. Throughout this form enter "DK" if the information requested is not known or is not available; enter "NA" if the information requested is not applicable.

Sec. I

A. Waste description Instruction Page 12: Waste Petroleum Naphatha, spent cleaning solvent from the Cad Cam operation.

B. EPA hazardous waste code Page 12: D001 | NA | NA | NA

C. State hazardous waste code Page 13: NA | NA | NA

D. SIC code Page 13: 3613

E. Source code Page 13: 10

F. Waste form code Page 13: H82

G. Waste minimization results Page 13: B

Sec. II

A. Organics Instruction Page 14	B. Water Page 15	C. Total Solids Page 15	D. Suspended Solids Page 15	E. BTU Page 16
High: A	High:	High:	High:	High:
Low:	Low:	Low:	Low:	Low:
Test: Note: N	Note: D	Note: D	Note: D	UOM: Note: D

F. Toxic Metals Page 16 Note: A

Metal	High	Low	Test
1.			
2.			
3.			
4.			
5.			
6.			

G. pH Page 18	H. Flashpoint Page 18	I. Cyanides Page 19	J. Halogens Page 20	K. Radioactive Page 20
High: .	High: 109 °F	High:	High:	Yes: ☐
Low: .	Low: °F	Low:	Low:	No: ☐
Note: D	Note:	Test: Note: G	Note: N	Note: N

Sec. III

A. 1986 quantity hazardous waste generated Instruction Page 20: 0

B. 1987 quantity hazardous waste generated Page 20: 55

C. UOM Page 21: G

D. Density Page 21: 6.30 ☒ lbs/gal ☐ sg

E. Quantity hazardous waste on site on January 1, 1987 Page 21: 0

F. Quantity hazardous waste remaining on site on December 31, 1987 Page 21: 0

Sec. IV

A. EPA ID No. of facility to which waste was shipped Instruction Page 22	B. Number of shipments Page 22	C. Transport mode Page 22	D. Off-site T/S/D/R code Page 22	E. Total quantity shipped Page 22
IATA2000105593	1	H	M10 NA	55

Comments: The Waterloo facility is a storage facility - they remanifest the waste to Cottage Grove, WI. for fuel blending.

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CEDAR RAPIDS IA 52404

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1987 Hazardous Waste Generation and Shipment Report

FORM GS

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Make and complete a photocopy of this form for each hazardous waste generated on site or shipped off site during 1987.

Complete Sections I through IV. Throughout this form enter "DK" if the information requested is not known or is not available; enter "NA" if the information requested is not applicable.

Sec. I

A. Waste description Instruction Page 12: 1,1,1 Trichloroethane ORM-A, spent solvent from our vapor degreaser.

B. EPA hazardous waste code Page 12	C. State hazardous waste code Page 13
F001 F002 NA NA	NA NA NA

D. SIC code Page 13	E. Source code Page 13	F. Waste form code Page 13	G. Waste minimization results Page 13
3613	10	H61	B

Sec. II

A. Organics Instruction Page 14	B. Water Page 15	C. Total Solids Page 15	D. Suspended Solids Page 15	E. BTU Page 16
High C	High	High	High	High
Low	Low	Low	Low	Low
Test A Note	Note D	Note D	Note D	UOM Note D

F. Toxic Metals Page 16 Note A

Metal	High	Low	Test
1.			
2.			
3.			
4.			
5.			
6.			

G. pH Page 18	H. Flashpoint Page 18	I. Cyanides Page 19	J. Halogens Page 20	K. Radioactive Page 20
High .	High °F	High	High	Yes ☐
Low .	Low °F	Low	Low	No ☐
Note A	Note G	Test Note G	Note D	Note N

Sec. III

A. 1986 quantity hazardous waste generated Instruction Page 20	B. 1987 quantity hazardous waste generated Page 20	C. UOM Page 21	D. Density Page 21
530	165	G	11.00 ☒ lbs/gal ☐ sg

E. Quantity hazardous waste on site on January 1, 1987 Page 21	F. Quantity hazardous waste remaining on site on December 31, 1987 Page 21
0	0

Sec. IV

A. EPA ID No. of facility to which waste was shipped Instruction Page 22	B. Number of shipments Page 22	C. Transport mode Page 22	D. Off-site T/S/D/R code Page 22	E. Total quantity shipped Page 22
IAT200010593	1	H	M10 NA	165

Comments: Vapor degreaser was shutdown for repair in 1987. This caused the reduction in waste generated and not waste minimization practices. The Waterloo facility is a storage facility. They remanifest to Cottage Grove, WI. for organic recovery.

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL

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SQUARE D CO
JENSEN, JAMES ENV COORDINATOR
3700 5TH ST SW
CEDAR RAPIDS IA 52404

U.S. ENVIRONMENTAL PROTECTION AGENCY

1987 Hazardous Waste Generation and Shipment Report

FORM **GS**

WASTE GENERATION AND SHIPMENT

WHO MUST COMPLETE THIS FORM? Form GS must be completed by every site that generated hazardous waste on site or shipped hazardous waste off site during 1987.

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INSTRUCTIONS: Please read the detailed instructions beginning on page 12 of the 1987 Hazardous Waste Generation and Shipment Report Instructions booklet before completing this form.

Make and complete a photocopy of this form for each hazardous waste generated on site or shipped off site during 1987.

Complete Sections I through IV. Throughout this form enter "DK" if the information requested is not known or is not available; enter "NA" if the information requested is not applicable.

Sec. I

A. Waste description (Instruction Page 12): Waste Xylene, spent solvent from paint cleaning operation

B. EPA hazardous waste code (Page 12): F003 | D001 | NA | NA

C. State hazardous waste code (Page 13): NA | NA | NA

D. SIC code (Page 13): 3613

E. Source code (Page 13): 10

F. Waste form code (Page 13): H52

G. Waste minimization results (Page 13): A

Sec. II

A. Organics (Instruction Page 14): High A; Low; Test; Note N

B. Water (Page 15): High; Low; Note D

C. Total Solids (Page 15): High; Low; Note D

D. Suspended Solids (Page 15): High; Low; Note D

E. BTU (Page 16): High; Low; UOM; Note D

F. Toxic Metals (Page 16) Note A

	Metal	High	Low	Test
1.				
2.				
3.				
4.				
5.				
6.				

G. pH (Page 18): High; Low; Note D

H. Flashpoint (Page 18): High 80 °F; Low °F; Note

I. Cyanides (Page 19): High; Low; Test; Note G

J. Halogens (Page 20): High; Low; Note N

K. Radioactive (Page 20): Yes ☐; No ☐; Note N

Sec. III

A. 1986 quantity hazardous waste generated (Instruction Page 20): 1215

B. 1987 quantity hazardous waste generated (Page 20): 220

C. UOM (Page 21): G

D. Density (Page 21): 7.38 ☒ lbs/gal ☐ sg

E. Quantity hazardous waste on site on January 1, 1987 (Page 21): 0

F. Quantity hazardous waste remaining on site on December 31, 1987 (Page 21): 0

Sec. IV

A. EPA ID No. of facility to which waste was shipped (Instruction Page 22): IAT200010593

B. Number of shipments (Page 22): 1

C. Transport mode (Page 22): H

D. Off-site T/S/D/R code (Page 22): M10 | NA

E. Total quantity shipped (Page 22): 220

Comments: The Waterloo facility is a storage facility, they remanifest the waste to Cottage Grove, WI. for fuel blending.

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL

IAD000819110 L
SQUARE D CO
JENSEN, JAMES ENV COORDINATOR
3700 6TH ST SW
CEDAR RAPIDS IA 52404

U.S. ENVIRONMENTAL PROTECTION AGENCY

1987 Hazardous Waste Generation and Shipment Report

FORM GS

WASTE GENERATION AND SHIPMENT

WHO MUST COMPLETE THIS FORM? Form GS must be completed by every site that generated hazardous waste on site or shipped hazardous waste off site during 1987.

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Make and complete a photocopy of this form for each hazardous waste generated on site or shipped off site during 1987.

Complete Sections I through IV. Throughout this form enter "DK" if the information requested is not known or is not available; enter "NA" if the information requested is not applicable.

Sec. I

A. Waste description (Instruction Page 12): Waste Petroleum Naphatha, spent solvent for part cleaning system in the plant.

B. EPA hazardous waste code (Page 12): D001 | NA | NA | NA

C. State hazardous waste code (Page 13): NA | NA | NA

D. SIC code (Page 13): 3613

E. Source code (Page 13): 10

F. Waste form code (Page 13): H82

G. Waste minimization results (Page 13): B

Sec. II

A. Organics (Instruction Page 14): High: A; Low: ; Test: ; Note: N

B. Water (Page 15): High: ; Low: ; Note: D

C. Total Solids (Page 15): High: ; Low: ; Note: D

D. Suspended Solids (Page 15): High: ; Low: ; Note: D

E. BTU (Page 16): High: ; Low: ; UOM: ; Note: D

F. Toxic Metals (Page 16) Note: A

	Metal	High	Low	Test
1.				
2.				
3.				
4.				
5.				
6.				

G. pH (Page 18): High: ; Low: ; Note: D

H. Flashpoint (Page 18): High: 109 °F; Low: °F; Note:

I. Cyanides (Page 19): High: ; Low: ; Test: ; Note: G

J. Halogens (Page 20): High: ; Low: ; Note: N

K. Radioactive (Page 20): Yes: ☐; No: ☐; Note: N

Sec. III

A. 1986 quantity hazardous waste generated (Instruction Page 20): 8115

B. 1987 quantity hazardous waste generated (Page 20): 7645

C. UOM (Page 21): P

D. Density (Page 21): NA ☐ lbs/gal ☐ sg

E. Quantity hazardous waste on site on January 1, 1987 (Page 21): 555

F. Quantity hazardous waste remaining on site on December 31, 1987 (Page 21): 555

Sec. IV

A. EPA ID No. of facility to which waste was shipped (Instruction Page 22)	B. Number of shipments (Page 22)	C. Transport mode (Page 22)	D. Off-site T/S/D/R code (Page 22)	E. Total quantity shipped (Page 22)
IAD098027592	14	H	M10 NA	7645

Comments: The Davenport facility store the waste solvent and they remanifest it to the Elgin, Il. plant for organic recovery.

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL

IAD000819110 L
SQUARE D CO
JENSEN, JAMES ENV COORDINATOR
3700 5TH ST SW
CEDAR RAPIDS IA 52404

U.S. ENVIRONMENTAL PROTECTION AGENCY

1987 Hazardous Waste Generation and Shipment Report

FORM GS

WASTE GENERATION AND SHIPMENT

WHO MUST COMPLETE THIS FORM? Form GS must be completed by every site that generated hazardous waste on site or shipped hazardous waste off site during 1987.

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Make and complete a photocopy of this form for each hazardous waste generated on site or shipped off site during 1987.

Complete Sections I through IV. Throughout this form enter "DK" if the information requested is not known or is not available; enter "NA" if the information requested is not applicable.

Sec. I

A. Waste description Instruction Page 12: Metal Hydroxide ORM-E from our plating waste treatment operation.

B. EPA hazardous waste code Page 12: F006 | NA | NA | NA

C. State hazardous waste code Page 13: NA | NA | NA

D. SIC code Page 13: 3613

E. Source code Page 13: 10

F. Waste form code Page 13: N21

G. Waste minimization results Page 13: A

Sec. II

A. Organics Instruction Page 14: High —; Low 6; Test —; Note D

B. Water Page 15: High F; Low —; Note —

C. Total Solids Page 15: High J; Low —; Note —

D. Suspended Solids Page 15: High —; Low —; Note N

E. BTU Page 16: High —; Low —; UOM —; Note N

F. Toxic Metals Page 16 Note C

	Metal	High	Low	Test
1.	NI	Q	—	T
2.	CU	Q	—	T
3.	TC	R	—	T
4.	PB	T	—	T
5.	BA	T	—	T
6.	CD	T	—	T

G. pH Page 18: High 9.2; Low —; Note G

H. Flashpoint Page 18: High — °F; Low — °F; Note C

I. Cyanides Page 19: High T; Low —; Test T; Note —

J. Halogens Page 20: High —; Low —; Note D

K. Radioactive Page 20: Yes ☐; No ☐; Note D

Sec. III

A. 1986 quantity hazardous waste generated Instruction Page 20: 51385

B. 1987 quantity hazardous waste generated Page 20: 47867

C. UOM Page 21: P

D. Density Page 21: NA ☐ lbs/gal ☐ sg

E. Quantity hazardous waste on site on January 1, 1987 Page 21: 5612

F. Quantity hazardous waste remaining on site on December 31, 1987 Page 21: 8898

Sec. IV

A. EPA ID No. of facility to which waste was shipped Instruction Page 22: ILD000805812

B. Number of shipments Page 22: 4

C. Transport mode Page 22: H

D. Off-site T/S/D/R code Page 22: M72 | NA

E. Total quantity shipped Page 22: 44581

Comments: 1986 plating/waste treatment ran only one shift. In 1987 process changes in the plant caused plating/waste treatment to operate two shifts.

SQUARE D COMPANY
ELECTRICAL AND ADVANCED TECHNOLOGY PRODUCTS

CIRCUIT BREAKER DIVISION

319—365-4631 3700 SIXTH STREET, S.W. CEDAR RAPIDS, IOWA 52406-3069
P.O. BOX 3069

May 27, 1988

U.S. EPA Region VII
RCRA Branch/Iowa Section Biennial Report
726 Minnesota Avenue
Kansas City, Kansas 66101

To Whom It May Concern:

Enclosed is the completed 1987 Hazardous Waste Generation and Shipment Report for Square D Company, Cedar Rapids, Iowa, EPA ID Number IAD000819110.

If you have any questions or need more information, please contact Jim Jensen at 319-365-4631.

Sincerely,

James C. Jensen
Environmental Coordinator

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